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APPLICATION NO.	I	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/517,656	56 12/13/2004		Hitoshi Kidokoro	Q84298	1603
23373	7590	04/03/2006		EXAMINER	
SUGHRUI	•	PLLC IIA AVENUE, N.W.	HEINRICH, SAMUEL M		
SUITE 800	SILVAN	iia avenoe, ii. ii.	ART UNIT	PAPER NUMBER	
WASHINGTON, DC 20037				1725	
				DATE MAIL ED: 04/03/2006	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)					
	10/517,656	KIDOKORO ET AL.					
Office Action Summary	Examiner	Art Unit					
	Samuel M. Heinrich	1725					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence address					
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).							
Status							
1) Responsive to communication(s) filed on							
	 action is non-final.						
3) Since this application is in condition for allowar		secution as to the merits is					
	closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.						
	A parto gadyro, 1000 o.b. 11, 10						
Disposition of Claims							
4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.	4)⊠ Claim(s) <u>1-5</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>1-5</u> is/are rejected.	6)⊠ Claim(s) <u>1-5</u> is/are rejected.						
7) Claim(s) is/are objected to.	Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and/or	election requirement.						
Application Papers							
9) The specification is objected to by the Examiner.							
10)⊠ The drawing(s) filed on <u>13 December 2004</u> is/are: a)⊠ accepted or b)□ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12)⊠ Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)	-(d) or (f).					
a)⊠ All b)□ Some * c)□ None of:	priem, amaei ee e.e.e. 3 ; ; e(a)	(0) 0. (0).					
1. Certified copies of the priority documents	s have been received.						
2. Certified copies of the priority documents		on No.					
3. Copies of the certified copies of the prior							
	application from the International Bureau (PCT Rule 17.2(a)).						
* See the attached detailed Office action for a list of the certified copies not received.							
Attachment(s)							
1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) Paper No(s)/Mail Date							
Notice of Drantsperson's Parent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Drantsperson's Parent Drawing Review (PTO-948) Paper No(s)/Mail Date Notice of Informal Patent Application (PTO-152) Paper No(s)/Mail Date 12/13/04; 03/08/05. Paper No(

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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 1-5 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 1-5 contain the phrases "thinning-out means" or "thinned-out" and are not very clear descriptions of any degree of thinning of the pulse sets. The apparatus claims are written in narrative form. Claim 5, "so as to" is not a very positive method limitation.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to

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consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 1 and 3 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP57186378A. JP57186378A sets forth a laser device wherein a laser beam is output by discharging current at a power pulse train with a higher frequency than the laser output response frequency, and indicates that the laser is controlled by thinning out or proportioning this power pulse train. The use of a power pulse train with a higher frequency than the laser output response frequency is the same as setting the switching cycle to be faster than the time constant of discharge power and laser output, and controlling the overall width of this thinned or proportioned pulse train would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art in order to obtain output control having no dead band.

Claims 2, 4, and 5 are rejected under 35 U.S.C. 103(a) as being unpatentable over JP57186378A as applied to claims 1 and 3 above, and further in view of USPN 4,128,794 to Burleson. Burleson discloses (column 1, lines 50-62) the use of a feedback system to alter a command pulse train. The use of a feedback system in JP57186378A would have been obvious at the time applicant's invention was made to a person having ordinary skill in the art in order to reduce lag time.

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. Fraser et al disclose the well known control of command pulses.

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Any inquiry concerning this communication or earlier communications from the examiner should be directed to Samuel M. Heinrich whose telephone number is 571-272-1175. The examiner can normally be reached on M-F.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, P. Ryan can be reached on 571-272-1292. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Samuel M Heinrich
Primary Examiner
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